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**CIA-RDP86-00513R001757410008-8**

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**CIA-RDP86-00513R001757410008-8"**

TUGUSHI, G. YE.

"The Tiriponskiy Irrigation System and the Prospects for its Further Use."  
Min Higher Education USSR, Georgian Order of Labor Red Banner Agricultural Inst,  
Tbilisi, Press of the Georgian Agricultural Inst, 1955  
(Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

TUGUSHI, I. V.

Cand Agr Sci - (diss) "Effect of growing together grafts with wild plant on the yield of vineyard slips." Tbilisi, 1961. 22 pp; (Ministry of Agriculture Georgian SSR, Scientific Research Inst of Horticulture, Viniculture, and Viticulture Georgian SSR); 200 copies; price not given; (KL, 6-61 sup, 233)

LORDKIPANIDZE, R.S.; TUGUSHI, M.B.; DEHAPARIDZE, G.M.

Determining the limit of resistance. Trudy Inst. stroi. mekh.  
i seism. AN Gruz. 10:211-216 '64. (MIRA 18:11)



TUGUSHI, Ye. P.

Cand Agr Sci - (diss) "Run-off slitye soils of Eastern Georgia and measures for improving them." Tbilisi, Pub. Georgian Agricultural Inst, 1961. 19 pp; (Ministry of Agriculture Georgian SSR, Academy of Agricultural Sciences, Scientific Research Inst of Soil Science, Agrochemistry, and Reclamation of the Georgian SSR); 180 copies; free; (KL, 6-61 sup, 233)

TUGUTOV, I.Ye.

Culture and living conditions on a collective farm (ulus.).  
Kraeved. sbor. no.7:69-77 '62. (MIRA 16:8)  
(Buryat A.S.S.R.--Collective farms) (Buryats)

TUGUTOV, R.

I.IA.Kondakov, folklorist and student of regional studies. Izv.Vses.  
geog.ob-va 86 no.3:291-292 My-Je '54. (MLRA 7:6)  
(Kondakov, Iakim Iakovlevich, 1882- )



TUGUTOV. R.

Hail

Rare Hail, Priroda 41 No. 5, 1952

Monthly List of Russian Accessions. Library of Congress, August 1952, Unclassified.

TUGUTOV, R.F.

35959      dondok irinchinov. (uchastnik ekspeditsiy N.M. przheval'skogo).  
zapiski buryatmongol. nauch.-issled. in-ta kul'tyry I ekono  
miki, VIII, 1948, S. 178-79

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

TUGUTOV, R. F.

35237

Buryat-Mongol'skie Nazvaniyazverey, p tits i Ryb. Sborniktrudov po  
Filologii, Vyp.22, 1949, S. 12 6-31

SO: Letopis'Zhurnal'nykh Statey Vol. 34, Maskva, 1949

TUGUTOV, R.F.

Attacked by wolves. Priroda 45 no.6:119-120 Je '56. (MLRA 9:8)

1. Kyakhtinskiy muzey imeni V.A. Obrucheva.  
(Buryat-mongolia--Wolves)

BASHKUYEV, Budda Vasil'yevich; TUGUTOV, Rodion Filippovich; ZILOTIN,  
Yu.V., red.; BERKOVICH, M.Z., tekhn. red.

[Across Buryatia; tourists' routes] Po Buriatii; turistskie  
marshruty. Ulan\*ude, Buriatskoe knizhnoe izd-vo, 1961. 86 p.  
(MIRA 15:4)

(Buryat-- Mongolia--Guidebooks)

TUGUTOVA, I.Ye., uchitel'nitsa

Productive work of students on chicken breeding. Biol.v shkole  
no.4:54-57 J1-Ag '62. (MIRA 15:12)

1. Zhargalantuyaskaya vos'miletnyaya shkola Selenginskogo aymana  
Buryatskoy ASSR.

(Poultry)

(Stock and stockbreeding—Study and teaching)

CZECHOSLOVAKIA

TUHA, H., FOUSTKA, M., KUBISTA, V; Zoological Institute, Faculty of Natural Sciences, Charles University (Zoologicky Ustav Prirodovedecke Fak. UK), Prague.

"Phosphate Inhibition of Anaerobic Glycolysis in an Isolated Right Chamber of Rat."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 120

Abstract: Oxygen consumption of isolated myocardium is a function of the nature of the buffer solution. Phosphate at concentrations above 1mM inhibits both lactate production and glycolysis. 1 Figure, 2 Western references. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65.

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- 151 -

TUHACEK, Karel (Luzicka 9, Brno 16)

Special types of continuous functions of several variables. Mat  
fyz cas SAV 13 no.1:3-15 '63.



CZECHOSLOVAKIA

J. VYMAZAL and M. TUHACEK, Neurology Clinic of the Faculty of General Medicine of Charles University (Neurologická klinika fakulty všeobecného lékařství KU [Kralove University],) Head (prednosta) Academician K. HENNER, Prague.

"Treatment of Trigeminal Neuralgia with Acupuncture."

Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 112-118.

Abstract [English summary modified]: Acupuncture treatment of 15 patients as learned by one of the 2 authors during a 4-month study trip in Red China. Exact description of procedure given, listing the 10 local facial and the 3 distant (metatarsal, patellar, metacarpal) needle points. Results were long-term remission of all pain in 3, weeks-long remission in 6, hours only in 4, none (except for the striking and universal analgetic effect during and immediately after procedure) in 2. Since all of these patients had earlier been unsuccessfully treated with all other modern therapeutic methods, results are considered encouraging. Two detailed case reports; 2 tables; 1 Czech and 6 Soviet references.

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L 11440-00

ACC NR: AP6023193

SOURCE CODE: CZ/0082/65/028/005/0381/0388

AUTHOR: Vacek, J.; Tuhacek, M.; Vymazal, J.; Taborikova, H.

ORG: Neurology Clinic/headed by Academician K. Hanner/, Faculty of General Medicine, Charles University, Prague (Neurologicka klinika fakulty vseobecneho lekarstvi KU)

TITLE: Electrophysiologic study of the immediate effect of acupuncture in peripheral paralysis of the facial nerve

SOURCE: Ceskoslovenska neurologie, v. 28, no. 5, 1965, 381-388

TOPIC TAGS: reflex activity, nervous system disease, neurology, electrophysiology, man

ABSTRACT: Study of effect of acupuncture in 7 men and 13 women with paralysis of the facial nerve. The immediate and objective aspects of the effect indicate that acupuncture facilitates an increased state of "stationary irritation" brought about by some sort of reflex phenomenon. Orig. art. has: 4 figures and 2 tables. [Based on Eng. abst.] [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 003 / SOV REF: 002  
OTH REF: 004

Card 1/1

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0915

1404

TUHACEK, M.; VYMAZAL, J.; OBRDA, K.

Experience with treatment of peripheral facial nerve paralysis with  
acupuncture. Cesk. neurol. 26 no.2:120-125 Mr '63.

1. Laborator pro patofyziologii c. n. s. neurologické kliniky fakulty  
všeobecného lékařství KU v Praze, přednosta akademik K. Henner.  
(FACIAL PARALYSIS) (ACUPUNCTURE)

STARY, O.; FIGAR, S.; TUHACEK, M.; KREJCI, D.; HLADKA, V.; VYMAZAL, J.

Value of acupuncture in diskogenic radicular pains and its effect on the polyrheographic reaction in the affected segments. Cesk. neurol. 26 no.2:104-111 Mr '68.

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU v Praze,  
prednosta akademik K. Henner Fyziologicky ustav CSAV v Praze,  
reditel prof. dr. Z. Servit.

(POLYRADICULITIS) (ACUPUNCTURE)  
(INTERVERTEBRAL DISK DISPLACEMENT) (GALVANIC SKIN RESPONSE)

VYMAZAL, J.; TUHACEK, M.

Treatment of trigeminal neuralgia with acupuncture. Cesk. neurol.  
26 no.2:112-119 Mr '63.

1. Neurologická klinika fakulty všeobecného lékařství KU v Praze,  
prednosta akad. K. Henner.  
(TRIGEMINAL NEURALGIA) (ACUPUNCTURE)

CZECHOSLOVAKIA

M. TUHACEK, J. VYMAZAL and K. OBRDA, CNS Pathophysiology Laboratory  
(Laborator pro patofyziologii c.n.s.) [rest of affiliation as above.]

"Acupuncture Treatment of Peripheral Paralyses of the Facial Nerve."

Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 120-125.

Abstract [English summary modified]: Comprehensive report on 17 patients (12 primary and 5 secondary cases), including 10 refractory to all previous treatment. Results good clinically and electromyographically in 8, fair in 7. Speculative discussion about possible mode of action: elimination of ischemia by stimulation of a. stylomastoidea and a. nervis facialis? Three tables, 4 electromyograms; 4 Soviet, 1 US, 1 British, 1 Chinese and 3 Czech (whereof 2 'in press') references.

1/1

FIGAR, S.; KREJCI, D.; TUHACEK, M.

Vasomotor reactions following acupuncture in lumbosacral syndromes. Cesk. neurol. 27 no.4:251-255 J1'64

1. Fyziologicky ustav CSAV [Ceskoslovenske akademie ved] v Praze (reditel: prof. dr. Z.Servit) a Neurologicka klinika, fakulty vseobecneho lekarstvi KU [Karlov university] v Praze, (prednosta: akademik K.Henner).

CZECHOSLOVAKIA

O. STARY, S. FIGAR, M. TUHACEK, D. KREJCI, V. HLADKA and J. VYMAZAL, Neurologic Clinic of the Faculty of General Medicine of Charles University (Neurologicka klinika fakulty vseobecneho lekarstvi KU [Karlova Universita],), Head (prednosta) Academician K. HENNER; and Physiology Institute of the Czechoslovak Academy of Sciences (Fyziologicky ustav CSAV [Ceskoslovenska akademie vied],), Chief (reditel) Prof Dr Z. SERVIT; Prague.

"Acupuncture in Discogenic Radicular Affections and Polyreographic Reactions of Involved Segments."

Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 104-111.

Abstract [English summary modified]: An attempt to evaluate scientifically acupuncture whose "undeniable" successes (especially in trigeminal neuralgia and discopathies) one of the authors saw during a recent study trip in Red China; 42 patients with discogenic radicular syndromes involving primarily L5 and S1 were treated with an average of 3 applications on the points prescribed by traditional Chinese medicine; clinical evaluation of results was supplemented by polyreographic and skin temperature change

1/2



ROTH, Bedrich, Dr.; TUHACEK, Milad, Dr.

Electroencephalographic findings in organic and so called functional  
hypersomnias. Neur. psychiat. cesk. 17 no.4:235-244 Aug 54.

1. Neurologická klinika KU v Praze, prednosta prof. Dr. K.Hanner  
(SLEEP DISORDERS  
hypersomnia, organic & funct., ECG)  
(ELECTROENCEPHALOGRAPHY, in various diseases  
hypersomnia, organic & funct.)

TOHACEK, Milan; CUREDNIK, Alois; LUKESOVA, Tamara

Syndrome of chronic subclavio-carotid obliteration (pulseless disease), (A review and case reports). Cesk. neur. 23 no.1/2:112-118 Ja '60.

1. Neurologická klinika akad. Hennera. Int. oddel. na Slupi 6,  
prim. dr. R. Muratova.  
(AORTA dis.)  
(ARTERITIS)

TUHACEK, V., inz.

Saving of metals is a permanent condition for raising of effectiveness of national economy. Strojirenstvi 12 no.1:67-68 Ja '62.

1. Statni vyzkumny ustav materialu a technologie, Praha.

KVICATA, V.; TUHACEK, H.; KOLAR, H.

Effect of acupuncture on muscle clearance of 1-131. Czech.  
neurocl. 28 no.1:51-55 Jan 1965

1. Neurologická klinika fakulty všeobecného lékařství Karlovy  
Univerzity v Praze (prednosta akademik K. Heuner) a Biofyzikální  
ústav fakulty všeobecného lékařství Karlovy Univerzity v Praze  
(prednosta doc. dr. S. Dienstbier).

VACEK, J.; TUHACEK, M.; VYMAZAL, J.; TABORIKOVA, H.

Electrophysiological study of the early effect of acupuncture on peripheral paralyses of the facial nerve. Cesk. neurol. 28 no.5:381-388 S '65.

1. Neurologicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta akademik K. Henner).

TUHACEK, V.

For economy in machinery construction, p. 481, STROJIRENSTVI  
(Ministerstvo strojirenstvi) Praha, Vol. 5, No. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 4, No. 12, December 1956

TUHACEK, V.

A new technique; basis of our machine industry. p. 649

STROJIRENSTVI (Ministerstvo tezkého strojírenství, Ministerstvo přesného  
strojírenství a Ministerstvo automobilového průmyslu a  
zemědělských strojů) Vol. 6, No. 10, Oct. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957

TUHACEK, V.

"New Standardization Targets in the Machinery Industry." p. 153 (Strojirenstvi,  
Vol. 3, no. 2, Feb. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress,  
Feb. 1954, Uncl.



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G/010/60/000/005/004/004  
A121/A126

AUTHORS: Klima, F., Graduate Engineer, and Tuhl, R., Doctor of Engineering  
(Prague)

TITLE: SHF relayed communications

PERIODICAL: Radio und Fernsehen no. 5, 1960, 141 - 143

TEXT: The authors describe and submit technical data on the Czechoslovak mobile Tesla MT 11 and the stationary DT 11 relay stations used in television transmissions. The first design is used in transmissions between studio and transmitter or in TV spot-recordings up to a 60 km distance, whereas the second type is designed for stationary TV-nets. The apparatus are equipped with noval or micro-tubes; the transmitter tubes are special power klystrons with linear modulation characteristics, high stability of frequency and high durability. The relay stations operate in a temperature range of  $-20^{\circ}$  to  $+40^{\circ}\text{C}$ . Both designs can be used in radio bearing, too. The Tesla MT 11 relay station emitter amplifies the video signal at  $1\text{ V}_{\text{SS}}$  in a wide-band video amplifier, the signal is supplied to the emitter klystron. The sound signal of  $1.55\text{ V}_{\text{eff}}$  at  $200\text{ }\Omega$  is amplified and modulated to an adapter of  $8.5\text{ Mc}$  at  $\pm 75\text{ kc}$  frequency deviation. The klystron frequency

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deviation amounts to 8 Mc for the video signal and to 2 Mc for the adapter. The emitter is equipped with a cm-wave discriminator and a control unit for sound and picture, to the output of which a loudspeaker and a picture monitor can be connected. The receiver is equipped with a silicon diode conversion transducer. The video signal in the discriminator is amplified and the audio carrier branched off in the first stage of the image-intensifying screen and amplified by the audio to  $1.55 \text{ v}_{\text{eff}}/200 \Omega$  symmetrical output voltage. A wavemeter, four measuring instruments and outputs for the connection of a monitor and a loudspeaker are available on the receiver. In case of stationary operation the separated installation of emitter and receiver is possible. A complete emitter or receiver set for spot-recording purposes consists of 6 independent units, i.e., of the parabolic reflector antenna, a rotary head, a stand, an emitter (or receiver), a power-supply unit, and the cables. The weight including the 1 m diameter parabolic reflector amounts to 75 kp. The advantages of the relay are a low noise level, small weight and dimensions, the possibility to use parabolic reflector antennas of various diameters and to pass over from a 750 Mw to a 100 Mw transmitting power. The technical data of the MT 11 design are: supply voltage  $220 \text{ v} \pm 5\%$ , carrier frequency 8,100 - 8,500 Mc. Range: a) at a 100 Mw clystron output and 1 m antenna-diameter the range is 20 km at 41 dB signal-to-noise ratio and a 7 dB reserve for the auto-

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matic volume control; b) at a 100 Mw clystron output and 1.7 m diameter of antenna or 750 Mw clystron output and 1 m antenna-diameter the range is 35 km at 41 dB signal-to-noise ratio and a 12 dB reserve for the automatic volume control; c) at a 750 Mw clystron output and 1.7 m antenna-diameter the range is 60 km at 41 dB signal-to-noise ratio and a 16 dB reserve for the automatic volume control. The build-up time of an ideal impulse is below 75 nsec. The video input voltage is  $1 - 2 v_{ss}$  at  $75 \Omega$ , the output voltage  $1 v_{ss}$  at  $75 \Omega$ . The audio input voltage is  $0.8 - 3.2 v_{eff}$  at  $200 \Omega$ , the output voltage  $1.55 v_{eff}$  at  $200 \Omega$ . Signal-to-noise ratio: a) for the video-frequency channel minimum 41 dB at rated distance; for the audio-frequency channel minimum 52 dB at 1,000 cps and 47 dB at 50 cps. The non-linear distortion of the audio-frequency channel is 1 %; the width of the signal band is 30 cps - 15 kc/3 dB. Emitter: emitting power 750 Mw or 1,000 Mw; adapter of the audio-frequency channel 8.5 Mc at  $\pm 75$  kc frequency deviation. Emitter monitor output: image  $1 v_{ss}$  at  $75 \Omega$ , sound 50 Mw,  $12 \Omega$ . Precision of frequency measurement by a wavemeter 0.05%. Power input about 400 w for 750 Mw emitting power. Receiver: intermediate frequency 130 Mc, band width 23-Mc/3 dB. Receiver monitor output: image  $1 v_{ss}$  at  $75 \Omega$ , sound 40 Mw,  $12 \Omega$ . Precision of frequency measurement by a wavemeter 0.05%. Power input about 320 w. Dimensions of casings: 300 x 200 x 500 mm. Weights: emitter 20 kp, feeding part of emitter 22 kp, receiver 21 kp, feeding part of receiver 21 kp, parabolic reflector antenna

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of 1 m diameter 6.5 kp, stand and rotary head 26 kp; minimum height of stand 130 cm, maximum height 170 cm; cable drum for 60 m cable 10 kp. The DT 11 stationary relay station for the 6 cm band permits the transmission of black-and-white TV signals in accordance to the CCIR or OIR standards; the maximum range of transmission at optical sight amounts to 100 km. The unit consists of a receiver, an emitter, power-supply sets, waveguide lines, parabolic reflector of 3 m diameter and additional equipment. The emitter consists among others of a modulation amplifier for the power reflex clystron 211 SR 51 and a monitoring amplifier. In the receiver the incoming signal is superimposed in a symmetrical conversion transducer and amplified by an intermediate frequency amplifier at a center frequency of 105 Mc and 28 Mc band width. The intermediate-frequency demodulation is carried out by a linearized wide-band discriminator circuit and a following video amplifier. The entire set can be used at heavy atmospheric conditions, too, the antenna withstands wind velocities of 160 km/h. The values of background noise correspond to the CCIR recommendations for a circle of unit radius of 280 km. The technical data are: frequency band 4,400 - 5,000 Mc; emitting power minimum 1 w; frequency modulation at the clystron; intermediate frequency 105 Mc; intermediate frequency band-width 27 Mc; stability of frequency  $1 \cdot 10^{-4}$ ; maximum frequency deviation 10 Mc; video input voltage 1 v<sub>gk</sub> at 75  $\Omega$ ; range of adjustment + 14 to - 10 dB; output voltage

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1  $v_{ss}$  at 75  $\Omega$  ; rise time  $< 75$  nsec; supply 220 v, single phase  $\pm 5\%$ , 50 cps;  
diameter of parabolic reflector antenna 3 m; gain of antenna system 40 dB; total  
weight including antenna about 800 kp; total rate of power input about 1.4 kva.  
This article is a reprint from the Czechoslovak periodical KOVO-EXPORT. There are  
5 figures.

Card 5/5

TUHY, F.

"Development and Possibilities of Application of Sintered Carbide for Cold Pressing of Bolts and Rivets."

SO: Hutník (Metallurgical Worker), Czechoslovakia, Vol. 4, Nov. 1, Jan. 1954. (Air, AA, London, IR-775-54, 12 Apr 54 (unclassified)

GIRL, J.; BRET, J.; JAROS, M.; TUHY, J., MUDr.

Abdominal aortography in occlusive changes of the renal arteries.  
Cesk. radiol. 19 no.2:73-77 Mr'65.

1. Rentgenologicke oddeleni (vedouci: MUDr. F. Sykora); interni  
oddeleni (vedouci: MUDr. J. Sedivy); urologicke oddeleni (ve-  
douci: MUDr. J. Tuhy) Ustredni vojenske nemocnice v Praze.

TUHY, J.; BRET, J.

Arteriography of the kidney by percutaneous catheterization of the femoral artery. Rozhl. chir. 40 no.5:326-331 '61.

1. Urologické a rentgenologické oddelení Ústřední vojenské nemocnice.

(RENAL ARTERY radiography) (ANGIOGRAPHY)



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CA

PROCESSES AND PROCEDURES UNIT

m-Dinitrobenzene in blood. Its determination and observation of its changes by the polarographic method. Jan Roubal, Karel Tuhy, and Frantisek Pokorny (Bata Hosp., Zlin, Czechoslovakia). *Časopis Lékařů Českých* 85, 1002 (1946); cf. Teisinger, C.A. 32, 6109, 33, 21619. To det. dinitrobenzene (I): Hemolyze 2 ml. of blood with 3 ml. of distd. water and add 1 ml. of the following reducing soln. to remove dissolved O<sub>2</sub> (12.0% Na<sub>2</sub>SO<sub>3</sub>, cryst., 5.2% Na<sub>2</sub>CO<sub>3</sub>, anhyd., 0.8% hydroquinone, 0.4% metol, and 0.2% KBr). Polarograph this soln., using an outside calomel anode. Dogs were fed 8.3 to 15 mg. of I per kg. of body wt. The polarographic wave of I could be detected at from 1 to 2 hrs. 45 min. after ingestion, i.e. earlier than cyanosis of the mucous membranes or other clinical signs of poisoning. In 4 cases a double wave characteristic of I was observed which changed for later blood withdrawals to a single wave with the disappearance of the wave reduced at lower neg. potentials. The change of I is not a simple reduction, since nascent H *in vitro* lowers both waves of I simultaneously. In 2 dogs only a single wave was observed. On fractionation of whole blood the double wave is found preponderantly in the plasma, whereas the red blood cells show a single wave or a double wave which is quickly reduced to a single wave. I can first be detected in the plasma with a later shift into the red blood corpuscles. It is suggested that I is changed inside of the red cell by selective reduction of one NO<sub>2</sub> group. Gerald Reed

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

VISION SYSTEM

SAFETY

RESEARCH

DEVELOPMENT

PRODUCTION

MAINTENANCE

LOGISTICS

ADMINISTRATION

FINANCE

PERSONNEL

TRAINING

RESEARCH

DEVELOPMENT

PRODUCTION

MAINTENANCE

LOGISTICS

ADMINISTRATION

FINANCE

PERSONNEL

TRAINING

TUTAI, A.

Some economic aspects of the mechanization of work in the port of Galati.

P. 518 (REVISTA TRANSPORTURILOR) (Bucuresti, Rumania) Vol. 4, no. 12. Dec. 1957

SO: Monthly Index of East European Accessions (SEAI) LC Vol. 7, No. 5. 1958

The oxidizability of petroleum oils. B. TULCHIN AND K. IVANOV. *Moskovoie Zhivoe Delo* No. 3, 36-43, No. 4-8, 40-71 (1930); cf. C. A. 25, 403.—In an exhaustive series of expts. T. and I. attempted to correlate the character of the purifying agent used and the impurities to oxidizability of the oils. The starting material was a distillate and the impurities ("solar oil") at sp. gr. 0.880, acid no. 4.1 and saponification no. 4.4. This from a mazout ( $C_{18}$  to  $C_{20}$  hydrocarbons), which were expected to give on distillation consists mostly of  $C_{18}$  to  $C_{20}$  acids, as those in animal fats. The oxidation oxidation acids of approx. the same mol. wt. as those in animal fats. The oxidation was carried out for 3 hrs. on 10 g portions of oil with  $O_2$  at 15 atm pressure and 130°C. Lower temps. (130°C.) resulted in decreased oxidation, while at 170°C. no increase of absorption of  $O$  was observed. The degree of oxidation was accelerated by adding the acid and sapon. nos. of the oxidized oils. The oils were shaken with decg. the acid and sapon. nos. After standing for 4 hrs at 40-50°C. the acid layer was sep'd and the oil washed with  $H_2O$  to neutral reaction. This treatment was repeated 4 times. The oils, previously dried with  $P_2O_5$ , were then treated with 80% alk. was made to remove all traces of sulfonic acids. The unpurified oils are only slightly oxidized (acid no. 10.6; sapon. no. 21.0). The unoxidized treated oils are only slightly oxidized (acid no. 0.0; sapon. no. 1.23). The degree of oxidation is proportional to the amount of purifying agent used (oil treated with 3%  $H_2SO_4$ : acid

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**Oxidizability of mineral oils.** B. G. TURKUMAN AND K. I. IVANOV. *Neftepromyshlennost* 18, 979-91 (1931). -- Baku gas oil treated with 12% of  $H_2SO_4$  (monohydrate) added in 3 portions, followed by a washing with tap water, can be oxidized with  $O_2$  at 15 atm. by heating at  $180^\circ$  for 3 hrs. to a sapon. no. of 104.3, while a treatment with 6% of oleum (10%  $SO_3$ ) under identical conditions yields an oil of 63 sapon. no. after the above oxidation test. An addnl. treatment of the oil with 50% alc. soln. and washing with tap water increases the oxidizability considerably. If the treated oil still contains small quantities of naphthenic acids it should be washed with 50% alc. and water. A treatment with 28.1% of the amt. (by wt.) of  $SO_3$  and vapors of the  $SO_3$  from the oil gives a sapon. no. of 112.6 after oxidation. The addn. of naphthene acid salts of K, Na, Li, Fe and Mn to an acid treated oil increases its oxidizability. The above oxidation method is used in detg. the stability of oils. A. A. HOSHIKAWA.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

CA

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**Oxidizability of mineral oils.** B. G. TOICHINA, AND K. I. LAMOV. *Neftepromyshlennoe* 10, 970 (1930) Hukugai oil (treated with 12% of H<sub>2</sub>O<sub>2</sub>, monomethylate), added in 3 portions, followed by a washing with tap water, can be oxidized with O<sub>2</sub> at 15 atm. by heating at 160° for 3 hrs. to a sapon. no. of 104.3, while a treatment with 0% of oleum (10% SO<sub>3</sub>) under identical conditions yields an oil of 63 sapon. no. after the above oxidation test. An addnl. treatment of the oil with 50% alc. soln. and washing with tap water increases the oxidizability considerably. If the treated oil still contains small quantities of naphthenic acids it should be washed with 50% alc. and water. A treatment with 25% of the amt. (by wt.) of SO<sub>3</sub> and evapn. of the SO<sub>3</sub> from the oil gives a sapon. no. of 112.8 after oxidation. The addn. of naphthenic acid salts of K, Na, Li, Fe and Mn to an acid treated oil increases its oxidizability. The above oxidation method is used in detg. the stability of oils. A. A. ROBERTSON.

#### 4.3.4 METALLURGICAL LITERATURE CLASSIFICATION

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001757410008-8"**

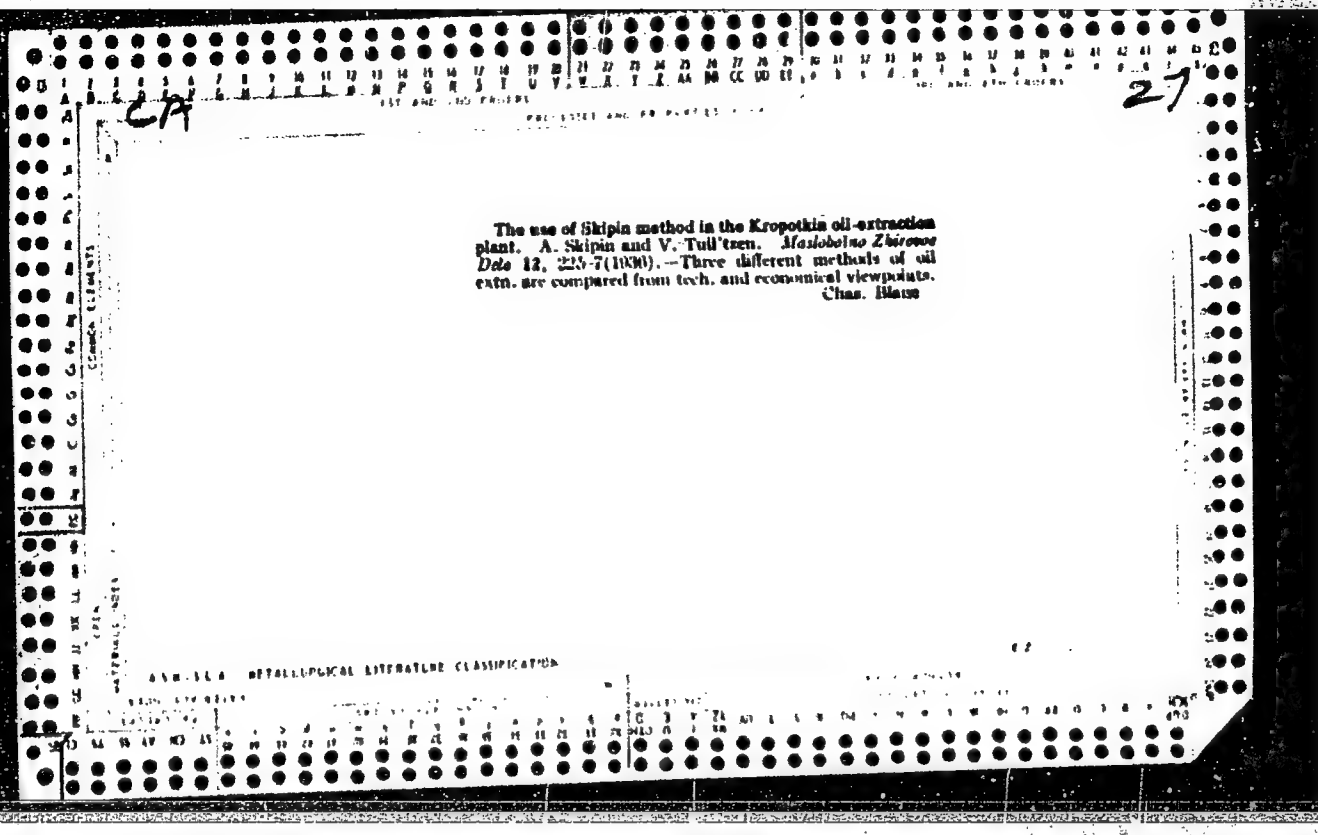
**Oxidizability of mineral oils.** B. G. TUCHINSKY  
and E. I. IVANOV (Nef. Choz., 1930, 18, 979-981).—  
~~Petroleum~~ gas oil, washed after treatment with anhydrous  
sulphuric acid, is oxidized in 3 hrs. at 160° by oxygen  
at 15 atm., giving an oil of saponif. value 104.3; when  
6% oleum is used the value is 62. The oxidizability of  
the oil is increased by treatment with 60% alcohol.  
Treatment with sulphur dioxide affords an oil of saponif.  
value 112.8, after oxidation. Addition of potassium,  
sodium, lithium, iron, or manganese salts of naphthenic  
acids increases the oxidizability of an acid-treated oil.

CHEMICAL ABSTRACTS.

EXPERIMENTS AND PROPERTIES OF

EXPERIMENTS ON MAKING WELDED PIPES FROM BESSEMER STEEL. A. A. TULIK. *Dome:*  
 1932, No 9, 42 0. Bessemer steel analyzing C 0.05 0.10, Mn 0.25 0.40, S 0.027  
 0.030, Si trace 0.010 and P 0.008 0.107% was used in making welded pipes. Phys  
 and microscopical tests showed that the product was of satisfactory quality  
 S. I. MAJORSKY

ASIA SLA METALLURGICAL LITERATURE CLASSIFICATION





11-8

USSR/Cultivated Plants - Fruits, Berries.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39497

Author : Kontrinas, J., Tuinyia, V.

Inst :  
Title :

Which Apple Tree Varieties Should be Cultivated in Lithuania?

Orig Pub : Soc. Zemes ukis, 1956, No 10, 17-22.

Abstract : Apple trees constituted 60% of all fruit trees in Lithuania according to the data obtained in 1952. The breakdown of these apple trees was as follows: summer varieties: 19%, fall varieties: 60% and winter varieties: 21%. It is recommended to grow apples in the following proportions: summer varieties: 10-15%; fall varieties: 15-25% and winter varieties: 60-70%. The percentage of apple trees in the total fruit crop should be increased up to 30%. It is recommended that one cultivate 37 varieties in Lithuania and avoid too great diversity of varieties.

Card 1/2

"APPROVED FOR RELEASE: 03/14/2001

USSR/Cultivated Plants - Fruits, Berries.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39497

11-8

Orchards close to big cities must produce summer and winter dessert varieties. High yield capacity Gislop and Red standard varieties must be grown for reprocessing. Planting of winter varieties must be increased at the expense of fall varieties. The principal summer varieties are: Abrikoso-voye, Belyy naliv, Mel'ba. The fall varieties are: Osennee polosatoye, Antonovka simple, Dobryy seryy. The winter varieties are: Walsi, Krosel'skoye and Pepin shaftran-nyy. -- N.A. Nedvetskiy.

Card 2/2

LUKOSEVICIUS, A.; STARAS, I.; DAGYS, J., red.; IVANAUSKAS, T., prof.red.;  
KRIAUCIUNAS, J., red.; MACYS, J., red.; MINKEVICIUS, A.,  
red.; MISEVICIUTE, A., red.; STARAS, I., red.; TUINYLA, V.,  
red.; URBONAS, A., red.; GLEBAVICIENE, S., red.; ANATIS, J.,  
tekh. red.

[Lithuanian pomology] Lietuvos pomologija. Red.V.Tuinyla..  
Vilnius, Valstybine politines ir mokslines literaturos  
leidykla, 1962. 43 p. (MIRA 16:8)

1. Lietuvos sodininkystes draugija.  
(Lithuania--Fruit--Varieties)

TUISHEVA, A.A., uchitel'nitsa

Lessons in studying the subject "Seed; its germination." Biol.  
v shkole no.5:28-33 S-O '59. (MIRA 13:8)

1. Shkola-internat No.37 g.Moskvy.  
(Botany--Study and teaching)  
(Seeds)

TUISHEVA, R.M.

Means of improvement of vaccine prophylaxis for rabies. Vop.  
virus. 7 no.6:680-683 N-D '62. (MIRA 16:4)

1. Kazanskiy nauchno-issledovatel'skiy institut epidemiologii,  
mikrobiologii i gigiyeny.  
(RABIES—PREVENTIVE INOCULATION)

BELOZJOROVA, A.; DANILOV, V.; HANIKAT, E.; KAHU, M.; MAIOROVA, T.  
[Mayorova, T.]; SOKOLOV, A.; SUROV, A. [Sharov, A.]; TILAND, H.;  
TUISK, A.; URB, E.; VEERISALU, E.; TIMAKOV, S.; JUHANI, I., red.;  
EINBERG, K., tekhn. red.

[Achievements of Soviet Estonia in 20 years; statistical survey]  
Noukogude Eesti saavutusi 20 aasta jooksul; statistiline kogumik.  
Tallinn, Eesti riiklik kirjastus, 1960. 173 p. (MIRA 15:5)

1. Estonian S.S.R. Statistika Keskvalitsus. 2. Sotrudniki Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for all except Juhani, Einberg). 3. Direktor Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for Timakov).  
(Estonia--Economic conditions)

TUISK, R.

How twice-a-day milking justifies itself. p. 351.

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne  
Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa)  
Warszawa, Poland, Vol. 13, no. 8, Aug. 1958.

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

TUISK, R.

How the production costs of pork are kept down on Viiratsi State Farm.  
p. 123.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium) Tallinn,  
Estonia. Vol. 13, no. 3, March 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11,  
November 1959.

Uncl.

YUGOSLAVIA

Dusan S. DJURIC, Jasmina TUJEGIIC LJALJEVIC and Ljubodrag SPASOJEVIC, Internal Medicine Clinic 'A' of Medical Faculty of University (Interna klinika A Medicinskog Fakulteta Univerziteta), Head Prof Dr Bronislav STANOJEVIC, Belgrade.

"Hepatogenic Diabetes."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 91, No 1, Jan 63; pp 7-15.

Abstract [English summary modified]: Review of literature and six case reports of patients in whom diabetes followed 2 to 5 years of hepatic cirrhosis. Capacity of liver to form and store glycogen decrease while the normal pancreatic insulin:glucagon ratio is reversed, with diabetes ensuing. Diagram, 2 tables; 3 Yugoslav and 29 Western references.

1/1



TUISHEVA, R.M.

~~Factors lowering the resistance of the organism in experimental~~  
rabies. Zhur.mikrobiol.epid. i immun. no.6:95-99 Je '55.  
(MLRA 8:9)

1. Iz Kazanskogo instituta vaktsin i syvorotok.  
(RABIES, experimental,  
factors lowering resist. of organism)

TUISK, Aleksandr Gansovich

[Prospects for the industrial conquest of the Eastern  
Sayan Mountains] Perspektivy promyshlennogo osvoeniia  
Vostochnykh Saian. Ulan-Ude, Buriatskoe knizhnoe izd-vo,  
1962. 130 p. (MIRA 17:9)

TUISK, R.

The twice-a-day milking of cows on state farms.

P. 313, (Sotsialistlik Põllumajandus) Vol. 12, no. 7, July 1957, Tallinn, Estonia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

TURMAN, R.E.

AUTHOR: Sukhod, R.E., Engineer.

110-3-14/22

TITLE: Fixing the Weights During Dynamic Balancing of Squirrel-cage rotors (Krepleniye gruzov pri dinamicheskoy balansirovke korotkozamknutykh rotorov)

PERIODICAL: Vestnik Elektromyshlenosti, 1958, Vol.29, No.5, p. 63 (USSR).

ABSTRACT: Until now, rotors have been balanced by drilling holes - a rather unsatisfactory procedure. This brief note describes a method of balancing rotors for No. 7 frame size by making weights of scrap sheet steel and wedging them into the rotor. The process is described and takes about ten minutes. There is 1 figure.

ASSOCIATION: "Vol'ta" Works (Zavod "Vol'ta")

AVAILABLE: Library of Congress

Card 1/1

1. Rotors-Balancing

TUKACHINSKIY, M.

Branch machine accounting service centers. Biul.nauch.inform.:  
trud i zar.plata no.11:34-36 '59. (MIRA 13:5)  
(Machine accounting)

TUKACHITSKIY, M.

~~Introduce new organizational practices in machine accounting.~~

Bukhg. uchet. 15 no.8:10-16 Ag '56.

(MLRA 9:10)

(Machine accounting)

TUKACHINSKIY, Mikhail Savel'yevich; SEDOVA, A.P., red.; GALAKTIONOVA,  
Ye.N., tekhn. red.

[Over-all machine accounting in automotive transportation  
units] Kompleksnaia mekhanizatsiia ucheta v avtokhoziai-  
stvakh. Moskva, Avtotransizdat, 1963. 71 p.

(MIRA 17:1)

PASS, L.G.; RODIN, A.F.; SLOTSKIY, M.B.; TOPOROV, P.T.; FEL'DMAN, L.S.;  
VAL'DMAN, D.A.; TUKACHINSKIY, M.S.; YAKOVLEVA, T.V.; ISAKOV, V.I.,  
red.; MORSKOY, K.L., red.izd-vs; BOROVNEV, N.K., tekhn.red.

[Organizing machine accounting in the construction industry;  
collection of articles] Organizatsiia mekhanizirovannogo ucheta  
v stroitel'stve; sbornik statei. Moskva, Gos.izd-vo lit-ry po  
stroit., arkhitekt. i stroit.materialam, 1959. 171 p. (MIRA 13:3)  
(Machine accounting)



28(2)

PHASE I BOOK EXPLOITATION

SOV/2572

Tukachinskiy, Mikhail Savel'yevich

Mashiny - matematiki (Machines-Mathematicians) Moscow, Fizmatgiz, 1958. 129 p. 50,000 copies printed.

Ed.: Yu.M. Bezborodov; Tech. Ed.: Ye.A. Yermakova.

PURPOSE: This book is intended to acquaint the layman with the principles and applications of computers.

COVERAGE The book discusses in popular style how certain forms of intellectual labor can be performed by computers. The author describes the great computing speeds of computers, their ability to perform logical operations, and their applications to the solution of complicated mathematical problems and to automatic control devices. The author also describes the application of computers to mechanical translation, to the analysis of chess problems and other games, and to the simulation of the reflexes of living beings. In the introduction, Professors A.N. Kolmo-

Card 1/4

Machines-Mathematicians

SOV/2572

gorov, A.A. Lyapunov, and M.R. Shura-Bura are mentioned as leading personalities in USSR working on the theory of analogue computers. There are no references.

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Machines-Mathematicians

SOV/2572

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Machines-Mathematicians

SOV/2572

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128

AVAILABLE: Library of Congress

Card 4/4

LK/jb  
12-1-59

TUKACHI GITY, KIL'at Savol'yevich

Mashiny-ustroystiki. Moskva, Fizmatgiz, 1958.  
129 p. illus., charts, diagrs., tables.  
Bibliographical footnotes.

TUKACHEV, Mikhail Savel'yevich

Maschinen als Mathematiker. Berlin, Vol. Deutscher  
Verlag der Wissenschaften, 1960.

139 p. illus., charts, figs., tables.

Translated from the original Russian Mashiny-mate-  
matiki, Moscow, 1959.

Bibliographical footnotes.

TUKACHINSKIY, M. S.

5575. Tukachinskiy, M. S. Kakschitayut mashing. tallin, estgosizdat, 1954.  
64 s. s ill. 20 sm. (Nauch.-popul. Seriya). 8000 ekz. ir.5k.---Naeston.  
yaz.---(55-676) 681.14  
Khar'kovskiy Inzhenerno-Ekonomicheskiy Institut. trudy...t. s. mashinostroitelnyy  
fakul'tet.---sm. 5298.

So: Knizhnaya Letopis', Vol. 1. 1955

Tukachinskiy, Mikhail Savel'yevich

N/5  
611.6  
.T91

Mashiny-Matematiki  
Machinemathematics  
Moskva, Fizmatgiz, 1958

129 P. illus., Charts, Diags., Tables.  
Bibliographical Footnotes.



TUKACHINSKIY, M.S.

Over-all mechanization of accounting in building enterprises.

[Izd.] LONITOMASH 44:133-140 '58.

(MIRA 11:9)

(Machine accounting) (Construction industry--Accounting)

TUKACHINSKIY, M.S.; ARLAZOROV, M.S., redaktor; AKHLAMOV, S.N., tekhnicheskiiy redaktor.

[How machines count] Kak schitalut mashiny. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1952. 63 p. (Nauchno-populiarnaya biblioteka, no.37) [Microfilm] (MLRA 7:10)  
(Calculating machines)

Tukachinskiy, M. S.

N/5  
611.6  
.T9

Kak schitayut mashiny (How machines count) Moskva, Gos. Izd-vo tekhnikoteoreticheskoy  
lit-ry, 1952.  
63 p. Illus., Diagr., Tables (Nauchno-populyarnaya biblioteka, no. 37)

1. TUKACHINSKIY, E. S.
2. USSR (600)
4. Science
7. How machines are computed, Moskva, Gos. izd. tekhniko-teoret. lit-ry, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

1. TUKACHINSKIY, M. [S.]
2. USSR (600)
4. Calculating Machines
7. Machine for solving problems. Znan. sila no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

TUKACHINSKIY, M. S.

Mekhanizatsia ucheta na promyshlennykh predpriatiakh /The use of machines for industrial accounting/. Gosstatizdat, 1953. 80 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

TUKACHINSKIY, Mikhail Savel'yevich, BEZBORODOV, Yu.M., red.; YERMAKOVA, Ye.A.  
tekh.n.red.

[Mechanical mathematicians] Mashiny-matematiki. Moskva, Gos. izd-vo  
fiziko-matematicheskoi lit-ry, 1958. 129 p. (MIRA 11:9)  
(Calculating machines)

AKKERMAN, V.V.; TUKACHINSKIY, S.Ye.; TEODOROVICH, V.I.; CHERNOMORDIK, B.L.;  
MOISEYEVA, V.P.; LUCANOVA, I.S.; SHULUTKO, L.S.; KURALEVA, V.V.;  
SOKOLOVA, T.S.

Some morphological and functional properties of the blood in  
patients with essential polycythemia. Probl.gemat.i perel.  
krovi 6 no.4:30-33 Ap '61. (MIRA 14:6)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-  
issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent  
A.D. Belyakov, nauchnyy rukovoditel' - chlen-korrespondent  
AMN SSSR prof. A.N. Filatov).  
(POLYCYTHEMIA) (BLOOD)



VISHNYAKOV, A.P.: DOBROVOL'SKIY, D.S.: YERMAKOV, Ya. V.: TUKACHINSKIY, S. Ye.

Electrophoretic determination of protein fractions on paper. Doklady Akad.  
nauk SSSR 87 no. 6:1035-1038 21 Dec 1952. (CML 23:5)

1. Presented by Academician A. I. Oparin 23 October 1952. 2. Lenin-  
grad Scientific-Research Institute of Blood Transfusion, Central  
Scientific-Research Paper Institute, and Central Scientific-Research  
Veterinary Laboratory.

257T33

TUKACHINSKIY, S. Ye.

USSR/Chemistry - Corrosion

Jan 53

"The Corrosion of Metals in the Atmosphere, at a Relative Humidity Below 100%," V. V. Skorchelletti and S. Ye. Tukachinskiy

Zhur Prik Khim, Vol 26, No 1, pp 30-40

Studied the corrosion of metals due the presence of a film of moisture deposited from an atm below 100% relative humidity. The rate of corrosion increases rapidly from 90 to 100%. It is increased even more if SO<sub>2</sub> is present.

257T33

USSR/Medicine - Physiology

Card 1/1 Pub. 22 - 55/56

Authors : Reznichenko, M. S.; Tukachinskiy, S.E.; and Tugolukov, V. N.

Title : The dynamics of separating plant albumena from blood vessels

Periodical : Dok. AN SSSR 99/5, 873-875, Dec 11, 1954

Abstract : It was established that albuminous plasmo-substituting solutions, due to their high colloidal-osmotic pressure, remain for a long period of time in the blood stream and are therefore considered more effective than salt solutions which do not contain substances of a colloidal nature. Experiments were conducted to determine the length of time foreign (plant) albumena can remain in the blood stream and the dynamics of their separation from the blood. The results obtained are described. Six references: 4-USSR and 2-USA (1944-1954). Graphs.

Institution: Scientific Research Institute for Blood Transfusion, Leningrad

Presented by: Academician A. I. Oparin, October 15, 1954

1UKACHINSKIY, S. Ye.

AID P - 3501

Subject : USSR/Chemistry  
Card 1/1 Pub. 152 - 16/21  
Authors : Skorchelletii, V. V. and S. Ye. Tukachinskiy  
Title : The adsorption structure of rust  
Periodical : Zhur. prikl. khim., 28, 6, 651-655, 1955  
Abstract : Carbon steel (0.08% C) was immersed in distilled water, in 3% sodium chloride solution, and in synthetic sea water. After formation of a thick layer of rust and drying, the samples were subjected to various degrees of humidity. The structure of rust depends on the conditions under which it was formed. Seven diagrams, 9 references, 4 Russian (1936-1953).  
Institution : Leningrad Polytechnic Institute  
Submitted : Mr 6, 1954

IVANOV, I.I.; YUR'YEV, V.A.; KADYKOV, V.V.; KRYMSKAYA, B.M. ; MOISEYEVA,  
V.P.; TUKACHINSKIY, S.Ye.

Electrophoretic investigation of the fractional composition of proteins  
of skeletal muscles in invertebrates during ontogenesis. Biokhimiya  
21 no.5:591-595 S-O '56. (MIRA 9:12)

1. Kafedra biokhimii Leningradskogo pediatricheskogo meditsinskogo  
instituta.

(MUSCLE PROTEINS, determination,  
electrophoresis of fractional composition (Rus))

BOGOMOLOVA, L.G., doktor meditsinskikh nauk; TEODOROVICH, V.P.;

TUKACHINSKIY, S.Ye.

Study of the resorption rate of hemostatic sponge in a living organism  
by means of radioactive indicators [with summary in English, p.156]  
Vest.khir. 77 no.3:44-48 Mr '56. . (MLRA 9:7)

1. Iz Leningradskogo instituta perelivaniya krovi (dir. dots.  
A.D.Belyakov)

(TAMPONS

hemostatic sponge, resorption study)

(HEMOSTASIS

same)

IVANOV, I.I.; YUR'YEV, V.A.; KADYKOV, V.V.; KRYMSKAYA, B.M.; MOISEYVA, V.P.;  
TUKACHINSKIY, S.Ye.

Proteins of the proactomyosin complex in the ontogenesis. Dokl.  
AN SSSR 111 no.3:649-651 N '56. (MLRA 10:2)

1. Leningradskiy pediatricheskiy meditsinskiy institut.  
Predstavleno akademikom L.A. Orbelli.  
(ACTINS) (MYOSIN) (EMBRYOLOGY)

USSR/Human and Animal Physiology. Blood. Blood Transfusions  
and Blood Substitutes.

T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55467.

Author : Tukachinskiy, S. Ye.

Inst :

Title : The Effect of Preservative Solutions Upon the  
Level of the Carbohydrate and Phosphorus Interchange  
in Banked Blood.

Orig Pub: Tr. Vses. konferentsii po med. radiol. Eksperim. med.  
radiol. M., Medgiz, 1957, 288-291.

Abstract: Blood, which was conserved in a simple citrated glu-  
cose solution (No 3) with antiseptic addition (A;  
No 7, L-6), or with A and alcohol (A1), or in poly-  
saccharide citrated solutions with A and A1, was ad-  
mixed with  $P^{32}$  ( $1 \mu$  curie/ml) and cooled to  $0^{\circ}$  [C].

Card : 1/4



USSR/Human and Animal Physiology. Blood.Blood Transfusions  
and Blood Substitutes.

T-4

Abs Jour: Ref Zhur-Diol., No 12, 1958, 55467.

blood. A did not affect the inclusion of P into the organic fraction, Al sharply inhibited such inclusion. In solutions which contained Al, phosphorylation was delayed for a longer time than in solutions which contained D. The inhibiting effect of D (average mol. v.  $\sim 100,000$ ) was observed in molar concentrations which were many times lower than concentrations containing Al. The amount of P which penetrated into the cell at  $0^{\circ} [^{\circ}C]$  was about 8-10 times smaller than the amount at  $37^{\circ} [^{\circ}C]$ . Additions of D and Al to the preserving solution inhibited the speed of the inorganic P penetration into the cell. Inasmuch as P penetration into the cell is connected with the organification of P of the cell surface,

Card : 3/4

VISHNYAKOV, A.P. [Vishniakou, A.P.]; YERMAKOV, N.V. [Ermakou, N.V.];  
TUKACHINSKIY, S.Ye. [Tukachynskii, S.E.]

Electrophoresis of proteins on filter paper. Vestsi AN BSSR.  
Ser. fiz.-tekhn.nav. no.2:76-83 '58. (MIRA 11:10)  
(Proteins) (Electrophoresis)

TUKACHINSKIY, S.Ye., starshiy nauchnyy sotrudnik

Method of using radioactive indicators for the study of the adaptability of transfused blood. Akt.bop.perel.krovi no.6:283-287 '58.

(MIRA 13:1)

1. Biofizicheskaya laboratoriya Leningradskogo instituta perelivaniya krovi (zav. laboratoriyey - starshiy nauchnyy sotrudnik S.Ye. Tukachinskiy).

(BLOOD--TRANSFUSION)

(RADIOACTIVE TRACERS)

BONDINA, V.A., starshiy nauchnyy sotrudnik; TUKACHINSKIY, S.Ye., starshiy nauchnyy sotrudnik

Determination of the volume of circulating blood experimentally by means of radioactive iron. Akt.vop.peral.krovi no.6:288-295 '58.  
(MIRA 13:1)

1. Laboratoriya eksperimental'noy patologii (zav. laboratoriyey - chlen-korrespondent AMN SSSR prof. I.R. Petrov) i biofizicheskaya laboratoriya (zav. laboratoriyey - starshiy nauchnyy sotrudnik S.Ye. Tukachinskiy) Leningradskogo instituta perelivaniya krovi.  
(BLOOD--CIRCULATION) (IRON--ISOTOPES)

IVANOV, I.I.; ZHAKHOVA, Z.N.; ZINOV'YEVA, I.P.; MIROVICH, N.I.; MOISEYEVA, V.P.;  
PARSHINA, E.A.; TUKACHINSKIY, S.Ye.; YUR'YEV, V.A.

Fractional composition of proteins and contractile function  
of various muscle types. Biokhimiia 24 no.3:451-458 My-Je  
'59. (MIRA 12:9)

1. Biochemical Laboratory of the Institute of Obstetrics and  
Gynecology, Academy of Medical Sciences of the U.S.S.R., Chair  
of Biochemistry of the Pediatric Medical Institute, and the  
Institute of Blood Transfusion, Leningrad.

(MUSCLE PROTEINS,

fractional composition, eff. on musc. con-  
traction (Rus))

17(3)

AUTHORS: Reznichenko, M. S., Moiseyeva, V. P., SOV/20-124-6-43/55  
Polotnova, L. I., Takachinskiy, S. Ye.

TITLE: Some Data on the N-End Groups of Rabbit Gamma Globulin Under  
Normal and Pathological Conditions (Nekotoryye dannyye ob  
Nekotsyvykh gruppakh gamma-globulina krolika v norme i patologii)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1339-1341  
(USSR)

ABSTRACT: The detection of the nature of the protein end groups and,  
furthermore, the determination of the order of amino acid  
radicals in the polypeptide chains of protein molecules are  
most important to the explanation of the protein structure  
etc. The authors decided to investigate the influence of an  
X-ray treatment of the  $\gamma$  globulin in vivo in addition to the  
problem mentioned in the title. In all three rabbits  
(chinchilla race) an acute radiation disease with a severe  
leucopenia was caused by the action of 800 r. A  $\gamma$  globulin  
preparation of about 97% was produced from their blood.  
Dinitro phenol (DNPh) derivatives of globulin of normal and ill  
animals were chromatographed on paper in 2 fractions

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(ether- and water-soluble). Figure 1 gives the schemes of characteristic chromatograms on citrate-phosphorus buffer and phenol. Table 1 presents numerical results of the  $R_f$  of chromatogram spots and the test and standard substances. For  $\gamma$  globulin of normal animals N-end groups are characteristic further tyrosine and lysine radicals (citrate-phosphorus chromatograms) and finally radicals of aspartic and glutamic acid and serine which are likewise well pronounced (phenol chromatograms). The occurrence of N-end alanine can be proved only by comparison of its  $R_f$  and the  $R_f$  of the standard substance in 3 solvents. In ill animals the DNPh chromatograms show the lacking of DNPh tyrosine, but another spot instead (III. Fig 1); i.e. that of DNPh glycine (all 3 solvents). The table (not numbered, p 1340) gives the characteristics of the  $\gamma$  globulins of normal and ill animals determined in this way. These results are largely in accordance with the data hitherto published (Refs 8-10).

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The tyrosine and lysine radicals found by the authors are added to the N-radicals of the  $\gamma$  globulin of normal rabbits, man and ox, which are already known. It may be assumed that the disappearance of end-tyrosine from the pathological  $\gamma$  globulin was due to an external radiation effect (Refs 11, 12). There are 1 figure, 2 tables, and 12 references, 5 of which are Soviet.

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